Exhibit A U.S. Patent No. 7,741,080 (first page)



(12) United States Patent Kadowaki et al.

US 7,741,080 B2 (10) Patent No.: (45) Date of Patent: Jun. 22, 2010

(54) ADIPONECTIN EXPRESSION-INDUCING AGENTS AND USES THEREOF

(75) Inventors: Takashi Kadowaki, Tokyo (JP); Toshimasa Yamauchi, Tokyo (JP); Shoko Kitajima, Tokyo (JP); Yusuke

Ito, Saitama (JP) (73) Assignees: Nissan Chemical Industries, Ltd., Tokyo (JP); Toudal TLO, Ltd, Tokyo

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 285 days.

10/594.969 (21) Appl. No.:

(22) PCT Filed: Mar. 31, 2005

(86) PCT No.: PCT/JP2005/006357

§ 371 (c)(1), (2), (4) Date: Mar. 14, 2007

(87) PCT Pub. No.: WO2005/094866

PCT Pub. Date: Oct. 13, 2005

(65) Prior Publication Data

US 2007/0203061 A1 Aug. 30, 2007

Related U.S. Application Data (60) Provisional application No. 60/557,708, filed on Mar. 31, 2004.

(51) Int. Cl.

C12P 19/34 (2006.01) C12N 15/00 (2006.01) C07H 21/04 (2006.01)

435/455; 435/325 (58) Field of Classification Search None See application file for complete search history.

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Primary Examiner-Christine J Saoud Assistant Examiner-Elly-Gerald Stoica (74) Attorney, Agent, or Firm-Hunton & Williams LLP

(57)ABSTRACT

16309-13.

The present invention provides adiponectin expression-inducing agents, and therapeutic agents using the same for obesity and obesity-related diseases such as cardiovascular diseases or metabolic diseases, as well as methods of searching for adiponectin expression-inducing agents.

KLF9, which can bind to the 32-bp fragment of position -188 to position -157 from the adiponectin expression start site. was demonstrated to enhance adiponectin promoter activity. Therefore, the present invention uses KLF9 as an adiponectin expression-inducing agent, and suggests that KLF9 replenishment therapy is useful for preventing and/or treating obesity or obesity-related diseases including metabolic diseases such as insulin resistance and type II diabetes, and cardiovascular diseases

9 Ciaims, 11 Drawing Shects

Exhibit B

Transmittal Sheet with USPTO date stamp

ADI 2 ROC'N PCT/PTO 32 8 SEP SULL

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

68600.000002

CONCERNING A SUBMISSION UNDER 35 U.S.C. 371
INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE

1 1145 100 10 6

PCT/JP2005/006357

March 31, 2005

PRIORITY DATE CLAIMED
March 31, 2004

ADIPONECTIN EXPRESSION-INDUCING AGENTS AND USES THEREOF

APPLICANT(S) FOR DO/EO/	US		
Takashi KADOWAKI	Toshimasa YAMAUCHI	Shoke KITAJIMA	Vusuke ITO

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

- . Material Street St
- This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.
- This express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
- - A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. 🛛 is attached hereto (required only if not communicated by the International Bureau).

 - is not required, as the application was filed in the United States Receiving Office (RO/US).
- An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a.
 is attached hereto.
- b. has been previously submitted under 35 U.S.C. 154(d)(4).
- . Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. are attached hereto (required only if not communicated by the International Bureau).
 - b. have been communicated by the International Bureau.
 - have not been made; however, the time limit for making such amendments has NOT expired.
 - d. have not been made and will not be made.
- An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
- A copy of the oath or declaration of the inventor(s) as filed in the PCT Request (35 U.S.C. 371(c)(4)).
- An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36
 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

- An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
- 12.
 An Assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
- A Preliminary Amendment.
- An Application Data Sheet under 37 CFR 1.76.
- A substitute specification.
- A power of attorney and/or change of address letter.
- A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.
- A second copy of the published International Application under 35 U.S.C. 154(d)(4).
- A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
- 20. Other items or information:

The following fees have been submitted: 21.	U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.7) INTERNATIONAL APPLICATION NO. ATTORNEY'S DOCKET NUMBER						
The following fees have been submitted: 21.							
21. Secretarian and severe cell southern to the content of the secretary of the severe opinion prepared by ISA/US or the International Preliminary Examination Report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$ 0.00 22. Search Fee (37 CFR 1.492(b)) If the written opinion prepared by ISA/US or the International Preliminary Examination Report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$ 0.00 23. Search Fee (37 CFR 1.4492(b)) If the written opinion of the ISA/US or the International Preliminary Examination Report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$ 0.00 Search Fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USFTO as an \$ 100.00 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB \$ 400.00 Ald other situations \$ 500.00 TOTAL OF ABOVE CALCULATIONS = \$ \$ 900.00 Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (c) or computer program listing filed in an electronic medium) (37 CFR 1.492(b)) The fee is \$250.00 for each additional 50 sheets of paper or fraction Total Sheets Extra Sheets Number of each additional 50 or fraction thereof (round up to a whole number) 41-100 0/50 0 0 x \$250.00 \$ 0.00 Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(b)) CLAMS NUMBER FILED NUMBER EXTRA RATE \$ 10.00 CLAMS NUMBER FILED NUMBER EXTRA RATE \$ 10.00 Independent claims 3 - 3 = 0 x \$200.00 \$ 0.00 MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360.00 \$ 360.00 TOTAL OF ABOVE CALCULATIONS = \$ 1260.00	77 . 6 11		101/31	2005/0	00337		
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SUBTOTAL = \$ 1260.00	SUBTOTAL =			\$ 1260.00			
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).			ish translation later than 30	months	from the earliest	s	
TOTAL NATIONAL FEE = \$ 1260.00	TOTAL NATIONAL FEE =			\$ 1260.00			
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property	Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property			\$ 0.00			
TOTAL FEES ENCLOSED = \$ 1260.00				\$ 1260.00			
Amount to be refunded:							
Amount to be charged:							

IAP2 Rec'd PCT/PTO 29 SEP 2006

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.7)	INTERNATIONAL APPLICATION NO.	ATTORNEY'S DOCKET NUMBER		
1,0,6594969	PCT/JP2005/006357	68600.000002		
a A check in the amount of \$1260.00	to cover the above fe	es is enclosed.		
b. Please charge Deposit Account No.	<u>50-0206</u> in the amount of <u>\$</u>	to cover the above fees.		
A duplicate copy of this sheet is enclo	osed.			
c. The Commissioner is hereby authoriz to Deposit Account No. 50-0206				
d. Fees are to be charged to a credit of information should not be included on this form	ard. WARNING: Information on this	form may become public. Credit card rization on PTO-2038.		
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.				
SEND ALL CORRESPONDENCE TO: CUSTOMER NO. 21967 Intellectual Property Department Hunton & Williams LLP	SIGNATURE Christopher J. Nichols, Ph.D.	2		
1900 K Street, N.W.; Suite 1200 Washington, DC 20006-1109	NAME			
(202) 955-1500 (telephone) (202) 778-2201 (facsimile)	55,984	NATE Section 20 2006		

Exhibit C USPTO Patent Term Adjustment History

10/594,969	ADIPONECTIN EXPRESSION-INDUCING AGENTS AND USES THEREOF	08-12- 2010::16:36:29		
Transaction History				
Date	Transaction Description			
06-25-2010	Sequence Moved to Public Database			
06-22-2010	Recordation of Patent Grant Mailed			
06-02-2010	Issue Notification Mailed			
06-22-2010	Patent Issue Date Used in PTA Calculation			
05-04-2010	Dispatch to FDC			
05-04-2010	Dispatch to FDC			
04-30-2010	Application Is Considered Ready for Issue			
04-30-2010	Mail Response to 312 Amendment (PTO-271)			
04-29-2010	Response to Amendment under Rule 312			
04-19-2010	Amendment after Notice of Allowance (Rule 312)			
04-19-2010	Issue Fee Payment Verified			
04-19-2010	Issue Fee Payment Received			
02-19-2010	Sequence Forwarded to Pubs on Tape			
01-26-2010	Maii Examiner's Amendment			
01-26-2010	Mail Notice of Allowance			
01-15-2010	Document Verification			
01-15-2010	Notice of Allowance Data Verification Completed			
01-15-2010	Case Docketed to Examiner in GAU			
01-04-2010	Examiner's Amendment Communication			
08-04-2009	Information Disclosure Statement (IDS) Filed			
08-04-2009	Information Disclosure Statement considered			
10-26-2009	Date Forwarded to Examiner			
09-28-2009	Response after Non-Final Action			
09-28-2009	Request for Extension of Time - Granted			
08-04-2009	Information Disclosure Statement (IDS) Filed			
05-26-2009	Mall Non-Final Rejection			
05-11-2009	Non-Final Rejection			
09-29-2006	Information Disclosure Statement considered			
12-12-2006	Information Disclosure Statement considered			
01-24-2007	Information Disclosure Statement considered			
04-16-2009	Date Forwarded to Examiner			
04-02-2009	Response to Election / Restriction Filed			
04-02-2009	Request for Extension of Time - Granted			
10-10-2008	Mail Restriction Requirement			
09-29-2008	Requirement for Restriction / Election			
04-08-2008	Case Docketed to Examiner in GAU			
08-30-2007	PG-Pub Issue Notification			
07-19-2007	Case Docketed to Examiner in GAU			
05-22-2007	Corrected filing receipt			
07-06-2007	Transfer Inquiry to GAU			
01-24-2007	Information Disclosure Statement (IDS) Filed			
12-12-2006	Information Disclosure Statement (IDS) Filed			

09-29-2006	Information Disclosure Statement (IDS) Filed	
06-11-2007	IFW TSS Processing by Tech Center Complete	
01-24-2007	Reference capture on IDS	
01-24-2007	Information Disclosure Statement (IDS) Filed	
12-12-2006	Information Disclosure Statement (IDS) Filed	
09-29-2006	Preliminary Amendment	
10-27-2006	New or Additional Drawing Filed	
09-29-2006	Preliminary Amendment	
09-29-2006	Information Disclosure Statement (IDS) Filed	
09-29-2006	Request for Foreign Priority (Priority Papers May Be Included)	
05-15-2007	Application Dispatched from OIPE	
03-14-2007	371 Completion Date	
05-09-2007	Sent to Classification Contractor	
05-09-2007	Notice of DO/EO Acceptance Mailed	
10-15-2006	Cleared by OIPE CSR	
10-15-2006	IFW Scan & PACR Auto Security Review	
10-13-2006	CRF Is Good Technically / Entered into Database	
09-29-2006	CRF Disk Has Been Received by Preexam / Group / PCT	
09-29-2006	Initial Exam Team nn	

Close Window

Exhibit D USPTO Transaction History

10/594,969	ADIPONECTIN EXPRESSION-INDUCING AGENTS AND USES THEREOF	08-12- 2010::16:36:2
ransaction		
Date	Transaction Description	
06-25-2010	Sequence Moved to Public Database	
06-22-2010	Recordation of Patent Grant Mailed	
06-02-2010	Issue Notification Mailed	
06-22-2010	Patent Issue Date Used in PTA Calculation	
05-04-2010	Dispatch to FDC	
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04-30-2010	Application Is Considered Ready for Issue	
04-30-2010	Mail Response to 312 Amendment (PTO-271)	
04-29-2010	Response to Amendment under Rule 312	
04-19-2010	Amendment after Notice of Allowance (Rule 312)	
04-19-2010	Issue Fee Payment Verified	
)4 - 19-2010	Issue Fee Payment Received	
2-19-2010	Sequence Forwarded to Pubs on Tape	
1-26-2010	Mail Examiner's Amendment	
1-26-2010	Mail Notice of Allowance	
1-15-2010	Document Verification	
1-15-2010	Notice of Allowance Data Verification Completed	
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1-04-2010	Examiner's Amendment Communication	
8-04-2009	Information Disclosure Statement (IDS) Filed	
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9-28-2009	Request for Extension of Time - Granted	
8-04-2009	Information Disclosure Statement (IDS) Filed	
5-26-2009	Mail Non-Final Rejection	
5-11-2009	Non-Final Rejection	
9-29-2006	Information Disclosure Statement considered	
2-12-2006	Information Disclosure Statement considered	
1-24-2007	Information Disclosure Statement considered	
4-16-2009	Date Forwarded to Examiner	
4-02-2009	Response to Election / Restriction Filed	
4-02-2009	Request for Extension of Time - Granted	
0-10-2008	Mail Restriction Requirement	
9-29-2008	Requirement for Restriction / Election	
4-08-2008	Case Docketed to Examiner in GAU	
8-30-2007	PG-Pub Issue Notification	
7-19-2007	Case Docketed to Examiner in GAU	
5-22-2007	Corrected filing receipt	
7-06-2007	Transfer Inquiry to GAU	
1-24-2007	Information Disclosure Statement (IDS) Filed	
2-12-2006	Information Disclosure Statement (IDS) Filed	

09-29-2006	Information Disclosure Statement (IDS) Filed
06-11-2007	IFW TSS Processing by Tech Center Complete
01-24-2007	Reference capture on IDS
01-24-2007	Information Disclosure Statement (IDS) Filed
12-12-2006	Information Disclosure Statement (IDS) Filed
09-29-2006	Preliminary Amendment
10-27-2006	New or Additional Drawing Filed
09-29-2006	Preliminary Amendment
09-29-2006	Information Disclosure Statement (IDS) Filed
09-29-2006	Request for Foreign Priority (Priority Papers May Be Included)
05-15-2007	Application Dispatched from OIPE
03-14-2007	371 Completion Date
05-09-2007	Sent to Classification Contractor
05-09-2007	Notice of DO/EO Acceptance Mailed
10-15-2006	Cleared by OIPE CSR
10-15-2006	IFW Scan & PACR Auto Security Review
10-13-2006	CRF Is Good Technically / Entered Into Database
09-29-2006	CRF Disk Has Been Received by Preexam / Group / PCT
09-29-2006	Initial Exam Team nn

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